

**International School on Physics of Indirect Excitons**  
**Ettore Majorana Center, Erice (IT) | July 26–August 1, 2014**  
**Marie Curie ITN INDEX Summer School**  
**65th Course on Solid State Physics**

**Program**

<b>Saturday July 26, 2014</b>	
	Arrival, no lectures
<b>Sunday July 27, 2014</b>	
09:00-09:15	Opening remarks
09:15-10:45	<b>J. Baumberg:</b> Polaritons (lecture)
10:45-11:15	Coffee Break
11:15-12:00	<b>G. Christmann:</b> Direct-indirect exciton coupling and tunnelling effects in strongly coupled microcavities
12:00-12:45	<b>J. Baumberg:</b> Exercise / Discussion
	Lunch
15:00-16:30	<b>E. Molinari:</b> Fundamentals of excitons (lecture)
16:30-17:00	Coffee Break
17:00-17:45	<b>A. Holleitner:</b> Few-exciton Physics
17:45-18:30	<b>E. Molinari:</b> Exercise / Discussion
<b>Monday July 28, 2014</b>	
09:00-10:30	<b>A. Pinczuk:</b> Optics of two-dimensional electron gases and quantum Hall bilayers (lecture)
10:30-11:00	Coffee Break
11:00-11:45	<b>L. Pfeiffer:</b> Semiconductor bilayers
11:45-12:30	<b>A. Pinczuk:</b> Exercise / Discussion
	Lunch
15:00-16:30	<b>L. Butov:</b> Indirect excitons (lecture)
16:30-17:00	Coffee Break
17:00-17:45	<b>F. Dubin:</b> Bose-Einstein condensation of excitons: the key role of dark states
17:45-18:30	<b>L. Butov:</b> Exercise / Discussion
18:30-20:00	INDEX Network Meeting 1st session (only for network participants)
<b>Tuesday July 29, 2014</b>	
09:00-10:30	<b>M. Dyakonov:</b> Spin physics of electrons, holes, and excitons in quantum wells (lecture)
10:30-11:00	Coffee Break
11:00-11:45	<b>M. Dyakonov:</b> Exercise / Discussion
	Excursion to Selinunte
19:00-20:00	INDEX Network Meeting 2nd session (only for network participants)
<b>Wednesday July 30, 2014</b>	
09:00-10:30	<b>L. Levitov:</b> Long-range valley currents, plasmons and energy waves in graphene
10:30-11:00	Coffee Break
11:00-11:45	<b>V. Pellegrini:</b> Exploring electron-hole pairing in graphene -GaAs heterostructures
11:45-12:30	<b>M. Vladimirova:</b> Spin dynamics in coupled quantum wells
	Lunch
15:00-15:45	<b>M. Polini:</b> Transport anomalies in separately-contacted bilayer exciton condensates

15:45-17:00	Short presentations given by students <sup>i</sup>
17:00-19:00	Poster session with wine & other goodies <sup>ii</sup>
<b>Thursday July 31, 2014</b>	
09:30-10:15	<b>L. Ponomarenko:</b> Transport in bilayer graphene
10:15-10:45	Coffee Break
10:45-11:30	<b>L. Levitov:</b> Exercise / Discussion
11:30-12:15	<b>C. Tejedor:</b> Exciton-plasmon-polaritons
	Lunch
15:00-15:45	<b>K. Bolotin:</b> Excitons in two-dimensional semiconductors
15:45-16:15	Coffee break
16:15-17:00	<b>M. Rontani:</b> Anomalous magnetization of carbon nanotubes as excitonic insulators
17:00-17:15	Closing remarks
<b>Friday August 1, 2014</b>	
	Departure

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<sup>i</sup> Participants are invited to present two slides about their research.

<sup>ii</sup> Participants are invited to present a poster.